

Support For  
**sinclair**

ZX81 - spectrum - QL  
and

**TIMEXsinclair**

1000 - 1500 - 2068  
computers

# **TIMELINEZ**

VOLUME 7

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\$2.50

**TIMEX/sinclair User Group News-Magazine**

**HAPPY  
NEW  
YEAR!**

**WETWARE DIVISIONS  
T/S SIG  
TELECOMMUNICATIONS SERVER  
STARTER'S MANUAL/GUIDE**

BY  
**KEVIN LEUNG**  
(KKK @ WETWARE DIVISIONS)

**SUPPORT FOR:**  
- CAMBRIDGE Z88 LAPTOP - TIMEXsinclair 2068  
- SINCLAIR QL - TIMEXsinclair 1500  
- ZX SPECTRUM+ 128K - TIMEXsinclair 1000  
AND ALL OTHER SYSTEMS

## **INTRODUCTION**

In the past few years, we have been supported from many BBS's, however, we always seem to look for a bigger, faster and better system to handle our needs. So I started the TIMEXsinclair SIG in Wetware Divisions. Wetware Divisions is the same type of system as the well known "WELL" (Whole Earth 'Lectronic Link). It has online files, online programs, UUCP, E-mail (world wide), party lines and many other goodies.

## **THE START OFF**

To start off with, you must have a modem to gain access to the system. You can call any time to start your account. Login as "new" and answer all the questions carefully. For those of you who are using MTERM I or II, when the computer asks you what emulation you're using, answer with "VT-52". That will tell the computer you're using a "smart terminal" for the on-line programs, full screen editor, split-screen talk and much more. For the ones that use the Z88, you can try "ANSI" as your EMU (I really don't know what the EMU is). However, for the QLers with QTerm as your EMU, use "DUMB" and for the 8code ver. 4.0 through ver. 5.0, use either "VT-52" or "DUMB". The users that are set up for "DUMB", you can still up/down load software and use the conference.

**NOTE:** If you're using a T/S 2050 modem, logon with 7, 1, EVEN and for Spectrum 64 software users, you should be set up as a "DUMB" terminal.

## **THE BBS**

There are many conferences here and you have full access to it once you enter the system. There are many conf's to get a listing, all you have to do is just type "HELP CONF" or "H CONF". There are over 27 conf's and each of them branch into items. You can create as many items as you want as long as it is not junk. Here are some commands you may want to try out in th conf's.

- help = get conf's help at anywhere
- scan = look at the header of the item
- read = read all new responses on the current conf
- enter = start a new item
- join [conf name] = join or move to another conf

There are many commands in the conf program but you can easily find them by using the help command. Conf commands can be shortened, Ex: r = read, s = scan, etc....

## **OUTSIDE THE BBS**

You may have noticed that this is a UNIX system. You can use some of the commands for up/down load, talk, mail, (world wide), party, online programs, full screen editor and much more. Here are some commands, remember that there are many more. You might want to buy or borrow a UNIX book to find and use the other commands. If your using these commands in the BBS Confs, add a "!" with the command(s), Ex: !uwhoado.

- cat [option][file\_name] = print a file
- (file\_name) = prints a file
- cp (path) = copy a dir for reading etc.
- mail (file\_name) = to mail somebody local or world wide with UUCP (personal message(s))
- more (file\_name) = prints a file one page at a time (22 x 80)
- pwd = see what dir you are using now
- mv (file\_name) = move a file
- ls [options][file\_list] = to see whats in the dir

## **FILES**

There are many online files for down-loading, they're all located in "usr/member/kkk". You can also upload to the same dir using "xm". If you are using a T/S 2068 or T/S 1000, you must do the following:

1. Type xm [options] (file\_name)
2. Enter your terminal menu and set to 8, NONE, 1
3. Run xmodem on your computer
4. After xfer, change back to 7, EVEN, 1 on your computer
5. Enter terminal mode

And do the same for uploads.

**SEE YOU ONLINE.....KEVIN**

TT	<b>TIMEXsinclair</b>
II	<b>user group</b>
MM	<b>News-Magazine</b>
EE	
LL	<b>-T/S-PUG</b>
II	<b>-T/S-SUU</b>
NN	<b>-S/T-EBZUG</b>
EE	<b>-TCWT/S_SIG</b>
ZZ	<b>-TAS-BAM, Inc.</b>

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# FRONT PAGE

PRINTED USING  
Sinclair QL  
PROFESSIONAL  
COMPUTER AND  
THIS PROGRAM.

DESK-TOP PUBLISHING  
FOR THE SINCLAIR QL

## TIMELINEZ INFORMATION

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Back issues of **TIMELINEZ**, 7/83 thru 12/87  
Contact Bill Miller  
at:

SincLink  
6675 Clifford Drive  
Cupertino, CA 95014

Issues 1/88 - present,  
contact your editor at  
American Micro.

The PDSE Library is  
now available to all;  
covering T/S1000-1500,  
T/S 2068, Spectrum and  
the QL.

Contact American Micro  
for further details.

FROM THE T/S BULLETIN 8/88 (sideways, but worthwhile)  
 Contact: Bill Harmer, 97 Ruskin St., Ottawa, Can. K1Y4B3



#### GETTING A DISK DRIVE FOR YOUR TIMEX-SINCLAIR

I am sold on disk drives. The Larken system for my TS1000 has made it quick to work with indeed instead of the plodding mind-tool it used to be. Saving (or loading) a program now takes 7 to 10 seconds instead of the one to ten minutes that the cassette recording used to take. It stores about 158K to a disk costing 60-70\$ in Canada (51\$ double sided). This is 16 average programs. I am a believer. Let me apologize in advance for the possibly incomplete information below. But a survey even if it contains the odd mistake, is necessary to put the availability of disk drive systems into a larger perspective. So, here goes!

For Your TS2068:

Aero (Texas) makes a large and expensive system but it has many extra, non-disk related features such as peripheral interfaces and extra system RAM expansion. Also RP/M, a CP/M operating sys. clone is available as an option.

Larken Electronics has produced three generations of disk drive systems IDOS (a cartridge-report DOS among them). Fast, flexible and reliable as well as fairly inexpensive (as these systems go). Oliver Co. has a disk system out too. Like the Larken system it will handle a variety of disk types, single or double sided, if you want it tailored for one of these (by special order).

RAM DISK Larken Fl. also has a RAM disk which is used with the cartridge DOS interface to allow saves and loads to static RAM instead of the mechanical disk drive.

#### For The TS2068 Running the Spectrum ROM Using a ROM Switch

Larken systems are compatible with both TS2068 mode and Spectrum mode. Check with the other manufacturers to see if their systems have been adapted to handle Spectrum mode.

Disciple interface from England will work on the TS2068 only when it is in Spectrum mode. It has a snapshot mode to save to disk copy protected Spectrum programs from England.

Aero also makes a ZI-80/TS1000 version. A CP/M clone RP/M is not yet available for it last I heard. Pricier but kits available too.

Larken also makes an LDOS interface for the TS1000/ZI-80. Standard mode uses 512 double-sided diskettes 158K approx. It is cheapest. Oliver also makes a version for the ZI-81/TS1000.

Trump Card and the cheaper ACE Card from Miracle Systems are tops. Sandy Q-Board (without RAM chips) is the next down in price.

Cumana Interface costs the least of the three (at-US\$130).

Sir Clive's Z-88 Laptop has the ability to write to the disk drive in an IBM-compatible computer as well as storing information in its own ROM chip cartridges. It can write to disk with QL and other computers.

7777 -PC8200 (oriental ZI-81 clone) and TS1500 - Not known if disks are available that will work on these systems, or for ZI-80.

Other disk systems were made for these computers and some individuals have made their own disk systems over the years. You might therefore find a non-standard system available on the used market or plans for making a do-it-yourself. Most disk systems disks are incompatible with each other. Larken ZI-81 disks won't work on the TS2068, although with a switch of ROM the LDOS disk interface (the original one) will work with either the ZI-81 or TS2068. Often disk drives (from manufacturers of generic disk drives rather than whole units with interface as used by the Commodore 64) can be used with several different interface boards and/or for several different computers. If you now own a disk drive or can buy one used or surplus you may be able to find one of the above interface boards will work with it (often only specifying a special ROM is necessary).

#### FROM THE FEB. 1989 PLOTTER N/L OF CLACKAMAS COUNTY, OREGON

#### MS-DOS FOR THE QL-

will be available at RMG and other QL dealers VERY soon! You will now be able to run all of the public domain and shareware software on your QL. It comes from DIGITAL PRECISION and is available in 2 versions, with and without DOS. For pricing and specs, send a SASE (legal) to RMG ENTERPRISES, 1419 1/2 7th STREET, OREGON CITY, OR 97045.

#### EAST COAST FEST-

is set for the first weekend in May in a suburb of Baltimore, MD. The host group is CATS, Capitol Area TS users. We are in a position to know how they feel and we want to extend best wishes and good luck in the endeavor. We do not want to cast a pessimistic pall over the idea of the computer fest, but, in our opinion, this will more than likely be the last of the TS fest/fairs that we will see UNLESS this is a TERRIFIC success!

#### FROM THE JAN. 1989 HACKER N/L OF HENDERSON, NEVADA

#### Z88 USER FORMS OWN BBS IN SUPPORT

the newest of the lap-tops, now has its own BBS. Phil Wheeler, of the Torrance/L.A. area has taken the task of becoming a SYSOP. Support and programs will be provided for the Z88, M-100 and family, (PC lappers, laptop specifics only) and CPM lappers.

His equipment includes a Z-150 with a 30 meg. hard drive. The baud rate is 300/1200/2400. The communications package is that of a FIDO board. His main objective is to support the Z88. the status of the board is open and free: will stay open if not abused. All you Z88 users out there, give Phil a call at: Torrance Laptop Support Group 1-213-370-2754

8/1/N

Plenty of activity, give Phil a call & see

1989 Jan 03 14:24:28

f1p1 sn8901.lis  
890103.1420;; words: 1220;;  
(S)inlink;; (N)ewsletter;;  
Filename: sn8901 (sn8812);;Page 1...  
SincLink Newsletter..  
Volume B; Number: 1..  
Jan, 1989...8 (c) Copyright 1989 SincLink..  
May be freely copied for non-  
commercial use only..  
Please give credit to author and  
source..  
For commercial use, contact  
SincLink, 408-253-3175..Table of Contents...  
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BYTES)..  
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8 What are the advantages of  
'Subscribing' to SincLink?..  
8 How do I 'Subscribe' to  
SincLink?..  
8812 SLIX Contacts (51)  
(sc8812.lis, 55422?);..  
6. SLIX Newsletter Exchange 88  
(12 months), 8810? Addresses  
(sx88.lis, 17708?);..  
7. SincLink 1988 Tables of  
Contents (5) (sn88.lis, 500?);..  
8. SincLink Information B901;...  
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8 LISTING TS USER GROUPS?..  
8 NEWSLETTER EXCHANGE?..  
8 Back issues of TIMELINEZ/  
SincLink are available..  
8 SincLink Subscription List...  
-----  
8 Disclaimer: SincLink and  
Authors disclaim responsibility  
for the results of hardware  
modifications to your computer  
system..  
If you are not SURE of your  
capabilities, get someone with  
more experience to help you...  
-----  
8 What is SincLink?..  
SincLink is the name of the  
original publication of the  
Group Using Timex Sinclair of  
Silicon Valley (GUTS/SV)..  
SincLink was first published in  
April, 1982..  
Parts of SincLink are usually  
printed in TIMELINEZ,  
the publication of Timex Sinclair  
East Bay 280 User Group  
(TSEB2UG), Timex Sinclair  
Peninsula User Group (TSPUG)  
and GUTS/SV...  
-----  
8 What are the advantages of  
'subscribing' to SincLink?..  
The purpose of most user groups  
is to share information..  
The best way to do this is thru  
a newsletter, since most  
members cannot attend every  
meeting..  
If you have a problem (or a  
solution), the best way to ask  
for help (or give help) is thru  
the newsletter..  
The newsletter also usually  
contains information about  
other User Groups around the  
nation and world that we gather  
thru our newsletter  
exchanges...  
-----8 How do I 'subscribe' to  
SincLink?..  
For User Groups (even small  
ones- there is nothing wrong  
with a one person User Group  
that puts out it's newsletter  
on a TS2040), we would prefer  
to exchange newsletters on disk  
(or paper if disk is not  
available)..If you just can't exchange  
newsletters, the best way to  
'Subscribe' to SincLink is thru  
SLIX ((S)inl(L)ink  
(I)nformation E(x)change)..Send us some Sinclair related  
information and we will send  
you a current SincLink and a  
'SLIX Contacts' printout with  
your information in it so that  
you can check it for accuracy  
and suitability..Mail exchange newsletters or  
information (on disk or  
paper) to:..SLIX..  
c/o Bill Miller, 408-253-3175..  
6675 Clifford Drive..  
Cupertino, CA 95014-4530..You may also call your  
information in to the telephone  
number listed above..The information will become part  
of the Permanent SLIX Database  
which will be made available to  
all SLIX participants in as  
many disk formats as we can  
manage..The preferred method for  
exchanging information is as  
ASCII text on 3.5in or 5.25in  
floppy diskette using:..88 MFM (Modified Frequency  
Modulation- double density)..  
88 80 or 40 cylinders..  
88 (2) tracks (heads) per  
cylinder..88 (9) 512 BYTE sectors per  
track..The preferred disk formats (in  
descending order of preference)  
are:..

88 5.25in, 720K..

88 3.5in, 720K..

88 MS(PC)-DOS 3.5in, 720K

(Preferred Standard, 3.5in)..  
88 MS(PC)-DOS 5.25in, 360K(Preferred Standard, 5.25in)..  
88 QL Cartridge or other QL DiskFormats (Single Sided, 3in,  
etc)..  
88 MS(PC)-DOS 3.5in, 1.44MB..  
88 MS(PC)-DOS 5.25, 1.2MB..  
88 C64/128 3.5in, 800K..  
88 C64/128 5.25in, 340K..  
88 Amiga 3.5in, 800K..  
88 TS2048 5.25in, Larken BOOK..  
88 TS2048 3.5in, Larken BOOK..  
88 TS2048 5.25in, JLD 795K..  
88 TS2048 3.5in, JLD 795K..  
88 Macintosh 3.5in, 400K..  
88 Macintosh 3.5in, 800K..  
88 'NeXT' 256MB Optical Disk...  
-----If you don't have a disk system  
that can read and write any of  
these formats, parts of  
SincLink are available in  
TIMELINEZ..TIMELINEZ subscriptions are  
available (\$15 Annually) from:  
American Micro Connection..  
408-270-9730..  
2175 Aborn Road #262..  
San Jose, CA 95121...  
-----If you absolutely MUST have most  
of SincLink in printed form and  
you already subscribe to  
TIMELINEZ, subscriptions to  
SincLink are \$10.00 per year.  
If you do not subscribe to  
TIMELINEZ, subscriptions are  
\$15.00 per year..  
Make check or money order  
payable to:..  
SincLink..Mail to:..  
SincLink..  
c/o Bill Miller, 408-253-3175..  
6675 Clifford Drive..  
Cupertino, CA 95014-4530...  
-----1989 Jan 03 10:49:51  
f1p1 sc8812.lis  
890103.092?;; words: 7288;;  
(S)LIX;; (C)ontacts;;  
Filename: sc8812 (sc8812)  
(1\_Page);;SLIX Contacts 8812 (51?);...  
-----8 881231/TCW TS SIG Meeting;;  
Attendee (1?); Bill Miller...  
-----8 881230/Letter from: Donald  
Laabert with \$13.95 check to:  
American Micro Connection for:  
Deposit and S&H for:..  
Sync 8111-8112; V1; \$6..  
Sync 8201-8202; V2; \$1..  
Sync 8203-8204; V2; \$2..  
Don:..Thanks for the check, but  
library loans are handled by  
SincLink so checks should be  
made out to SincLink. We will  
try to work it out with  
American Micro Connection..  
In answer to your question about  
SincLink on disk; SincLink is  
created on a QL and is  
presently available on QL  
disk..We are very close to reliably  
reading and writing an  
MS(PC)-DOS disk on the QL..  
It appears to us that the most  
reasonable way to have a COMMON  
disk format is for everyone to  
be able to read and write an  
MS(PC)-DOS disk..You might concentrate on seeing  
if this is possible on the  
Larken. We have a document that  
describes the organization of  
an MS(PC)-DOS disk. We hope to  
publish it in SincLink when we  
can relate it a little more  
closely to Sinclair disk  
systems..We have inclosed the Sync's you  
requested. Please return them  
within 30days of the postmark  
date to avoid subscription/  
deposit deductions...  
-----8 881230/Library Return from:  
Maurice O'Callaghan: TS1000  
User Manual..  
Maurice...  
-----Thanks for the return. We have  
enclosed a SincLink check for  
\$10.95 for your deposit...  
-----8 881230/Newsletter Exchange:  
NITE TIMES NEWS, Bpages..  
Page, Description (Filename,  
BYTES)..2. TS-2048 Home ROM Bypass  
(BYPASS.TXT?; 11329?);Fig 1: Home ROM Bypass  
(BYPASS.CUT?; 8227?);..  
Gary:..We are trying to set up a  
newsletter exchange on disk. Is  
NITE TIMES NEWS available on  
disk? We suspect we have 2 of  
the files already (although we  
haven't figured out how to  
print out the BYPASS.CUT file  
on the QL yet)..  
Also, is there any possibility  
you might have the XMODEM,  
YMODEM & ZMODEM definition  
files as mentioned in the  
881203.1634 record. If you do,  
could we get a copy somehow?...  
-----8 881230.1500/Call from: Victor  
Kwasnikow; 415-364-8431; 1733  
Heastead Place; Redwood  
City; CA; 94061..  
-----Victor found out about us from  
MicroTimes..  
He reports he has a TS2068,  
TS2020 Cassette Recorder, and  
MAP 12in Green Screen Monitor  
FOR SALE...  
-----8 881229/Newsletter Exchange:  
the HACKER 8901, 12pages..  
Page, Description..2. 'The Cambridge Mystery Marvel  
Machine' 'CHMM' by: Chris  
Fenn..4. The Plotter N/L reports that  
for a limited time, the  
discounted price of 'the Z80's  
suggested retail price of  
\$599.95 will be around  
\$449.95..6. 788 BBS's; Torrance Laptop  
Support Group;; Phil Wheeler;;  
1-213-370-2754, 8/1/W,  
300/1200/2400..7. 'Computer Industry Exhibiting  
Few Major Changes in  
Technology' COMDEX Report  
reprinted from the Las Vegas  
Review Journal of: Sunday,  
Dec.19, 1988..8. TS2068 Adventure type game  
listing (with bug, find the bug  
and win a prize?) converted  
from a Spectrum game from 'Your  
SPECTRUM' 8807 by: Ralph  
Hammer;; ACID-649-4127;; 2105  
Oakwood Ave.; North Las  
Vegas;; NV; 89030..  
Steve:..We have attached SincLink  
8807-9. This should provide you  
with a more or less complete 88  
SincLink collection. Hopefully  
we will be able to trade  
newsletters by MS(PC)-DOS disk  
in 1989...  
-----8 881229.0922-.0941/Call from:  
Chuck Marshall;; 317-773-5520;;  
20040 Wagon Trail Drive;;  
Noblesville; IN;; 46060..  
Chuck found out about us from  
Computer Shopper..  
He is looking for help in  
attaching a BSR X-10 home  
controller system to a TS1000  
thru an interface made for a  
Radio Shack Color Computer..  
Chucks:..After searching for about an  
hour thru back issues of  
TIMELINEZ, we found the article  
(8504-5 page 117, by: John  
Hancock;; 415-342-8457,) on  
attaching the TS1000 to the BSR  
X-10 home controller system. As  
you can see from the article  
(attached) it does use the  
Cassette Port just as you  
described, so modification may  
not be as hard as I suggested  
to you..It looks like the designer is  
probably the same as the dealer  
who sold it for \$69.95: Chuck  
Goldwater;; 415-449-2061;; 714  
Wimbledon Lane;; Livermore;;  
CA;; 94550..He can probably provide the  
information on converting it to  
work with the TS1000..  
If you could send us \$2.00 for  
the Newsletters, it would help  
out. If you can't afford it,  
don't worry about it..  
It would also help if you could  
keep us informed of your  
progress..  
Good Luck!...  
-----8 881228/GUTS/SV Meeting;;  
Attendees (3); Bill Miller;;  
Mark Wahl;; Steve Nichols..88 sc8812 (422?);  
88 sc8812 (72?);  
88 sc8811 (32?);  
88 sc8811 (6?);  
-----

88 Mark demoed his QL Network Software and Christa's Scene Software (both under development)..

He also brought:..

88 PDSE Tech-Notes, Excerpt from PDSE Library File (pages): WXMNODEN.ARC;; TOPIC: XMDEM COMMUNICATIONS PROTOCOL & EXTENSIONS..

88 'How to Use USENET Effectively' (12pages) by Matt Bishop;; Research Institute for Advanced Computer Science;; Mail Stop 230-5;; NASA Ames Research Center;; Moffett Field;; CA;; 94035, \$1.15 from most University Book Stores..

88 'How to Read the Network News' (13pages + 9pages 'LOCAL') by Mark R. Horton (Revised by Rick Adams for 2.10.3); AT&T Bell Laboratories;; Columbus;; OH;; 43213, \$2.15 from most University Book Stores..

88 Steve reported on progress on his Experimental BBS...  
88 881228/TSEBZUG Meeting?..

88 881228/Note to: TS Bulletin;; Bill Harmer..

Bill:..

As you can see from the messages to the other Newsletter Exchange folks, we are trying to set up a newsletter exchange on disk. Is there any possibility we can exchange newsletters in some COMMON disk format (like those mentioned on page 1 of the attached SincLink 8812)?..

88 881228/Note to: VISTA\_NL;; Tony Willing..

Tony:..

We are trying to organize a newsletter exchange on disk. Is there any possibility that we could come up with a STANDARD disk format that we could both read and write? Like MS(DOS)-DOS 5.25in or 3.5in; 360K or 720K?..

88 881228/Note to: Tim Ward..

Tim:..

We have enclosed a SASE for a list of your TS1000 Public Domain Library Programs available on 60min cassette tape..

Do you or Tony Willing plan on making them available on disk? If so, what disk format do you intend to use? Is there any possibility we could stand alone on MS(DOS)-DOS 360K or 720K 5.25in or 3.5in?..

88 881228/Newsletter Exchange: Pixel Print Prs 88mtr, 16pages;; Pixel Print Press, c/o Leake Software Development;; Stan Leake;; ACD-TEL-NUMB?;; Publisher;; 2144 White Oak;; Wichita;; KS;; 67207..

Other Contacts: Bill Ferreebee, MOUNTAINEER SOFTWARE;; ACD-TEL-NUMB?;; Editor;; 749 Hill Street #6;; Parkersburg;; WV;; 26104..

Bill urges us to send petitions to him urging Graham Taylor (Editor of Sinclair User), Alan Sugar (of Aastrad) and UK Software Companies to support TS Computers..

Stan has an article on printing Bit Image Graphics with a listing for a TS2068 BASIC Bit Image Graphics Printer Driver.. Tim Ward;; 208-584-0339;; 5142-D Binko Drive SW;; Tacoma;; WA;; 98439;; reports he and Tony

Willing have collected a "TS Public Domain Library with over 350 programs for TS1000 and TS2068 Computers. They have (5) 60minute tapes for the TS1000 available for \$4.00 from Tim. For a list, send a SASE to Tim..

The O.E.C. BBS, 614-423-7879,, has a TS SIG and TS Public Domain Software in section (D) of the (F)iles area..

The Library contains the following files:...

File Name	Program Name	Len.
TSPD1.BAS	Sound Effects	4007
TSPD2.BAS	Caloriburn	3930
TSPD3.BAS	Multifile	7011
TSPD4.BAS	Metric	3882
TSPD5.BAS	MC-MOVE	2726
TSPD6.BAS	Assembler	9993
TSPD7.BAS	Disassembler	9587
TSPD8.BAS	Copycat	589
TSPD9.BAS	Multitape	4369
TSPD10.BAS	Binary	1796
TSPD11.BAS	Phone Directory	1535
TSPD12.BAS	Cassette Label	2416
TSPD13.BAS	Headscan	1229
TSPD14.BAS	Scanner	1247
TSPD15.BAS	Videofile	5362

..

Stans:..  
Thanks for the info. We might be able to store all of Pixel Print Press in the SLIX Permanent Data Base if it is available on disk. Is it available as an ASCII file on MS(DOS)-DOS disk?..

Can we exchange Newsletters by disk?..

See the attached sn8812 page 1 for convenient disk formats...  
88 881228.1011/Letter from: Bob Kuster..

Most of the time the US Mail Service (Post Office) catches a lot of flak, but this time they delivered the information less than 14hrs after it was requested! And all for \$0.25!..

Bob inclosed a list of files he has succeeded in transferring from the User Group Library Cassettes to JLD Disk:...  
JLD SAFE V2.52 (c)1988, J.Dilger

..

DISK NAME: TSSVU-LIB3..

FORMATTED 3 80 TRACKS, 2 SIDE(S)

CAPACITY: 159 CYLS/795K BYTES

FREE: 80 CYLS/400K BYTES...

FILENAME TYPE CYLS SIZE START

.....

MENU BASIC 2 5214 1

golf STATE 10 49664

3D-DRIVER STATE 10 49664

FREEWAY STATE 10 49664

3D-0X BASIC 2 8745 1

BUGABOO STATE 10 49664

TB BASIC 1 4740 10

dragg BASIC 3 14272 10

glow worm BASIC 3 14820 4

monitor BASIC 5 24707 5

BIS BASIC 3 13413 5

textman STATE 10 49664

tracer BASIC 2 8537 999

BL BASIC 1 4463 1

las vegas BASIC 2 9652 10

3D GRAPH BASIC 1 2552 1

CALCULATOR BASIC 2 7095 10

KEYWORD BASIC 1 3815

HEADERS BASIC 1 3052 4

TOTAL FILES: 19...  
DISK NAME: TSSVU-LIB2..

FORMATTED 3 80 TRACKS, 2 SIDE(S)

CAPACITY: 159 CYLS/795K BYTES

FREE: 81 CYLS/405K BYTES...

FILENAME TYPE CYLS SIZE START

.....

MENU BASIC 2 5214 1

casino STATE 10 49664

cbs	STATE 10 49664
vu-calc	STATE 10 49664
vu-file	STATE 10 49664
auto	STATE 10 49664
chk	BASIC 7 35596 1
budgeter	STATE 10 49664
spell1	BASIC 3 10373 1
spell2	BASIC 3 10256 1
IMSLIBS	BASIC 3 12602 10

TOTAL FILES: 11...

DISK NAME: TSSVU-LIB1  
FORMATTED 3 80 TRACKS, 2 SIDE(S)

CAPACITY: 159 CYLS/795K BYTES

FILENAME TYPE CYLS SIZE START

.....

MENU BASIC 2 5214 1

DRAM STATE 10 49664

golf BASIC 2 7964 5

androids STATE 10 49664

DEN STATE 10 49664

PTR-LONG STATE 10 49664

PTR-SHORT STATE 10 49664

as5t STATE 10 49664

as5a STATE 10 49664

TOTAL FILES: 9...  
Bob:..

Thanks for the list.. It appears some of the programs may be Commercial and can not be distributed on the User Group Shareware Disk..

It also appears that some of the programs saved as 'STATE' could be saved in a shorter form as 'BASIC'.. We can probably get all the Shareware on one JLD TS2068 '(S)LIX ((S)incLink ((I)nformation E(x)change) (S)hareware' Disk..

Did cleaning the connectors (or at least unplugging them and plugging them back in) help your disk drive problems?..  
88 881227/Newsletter Exchange: SMUG BYTES 8812, 8 pages;; Sinclair Milwaukee Users Group;; Bill Heberlein;; 414-527-2191;; Editor;; 5052 N. 91st Street;; Milwaukee;; WI;; 53225..

Bill reports he received this notice from the United States Bankruptcy Court:..

'Mr. Joani, Jr. has applied for bankruptcy and will be free of debt after February 6, 1989. He lists his assets as .01 cent and his debts as \$61,933.05 dollars'.. It looks like the last three DL's ordered by SMUG members from Quantum Computing in December of 1987 will never arrive..

At the Cleveland fest Bill found out there were others waiting for merchandise and larger amounts. If anyone else has a claim contact:..

Jonathan Kohn;; 1180 Rayardon Blvd.; Newark;; NJ;; 07102-4107.. Bill:..

Thanks for the information on Quantum Computing. They sure put out a nice catalog. To bad some of their stuff was 'Vapor Ware'..

We are trying to organize a Newsletter Exchange on Disk.. Is SMUG\_BYTES available on QL disk?..

Can we exchange? See SincLink 8812 page 1 for preferred disk formats...  
88 881227/Newsletter from: John McMichael (880817); ACD-TEL-NUMB?;; 1710 Palmer Drive;; Laramie;; WY;; 82070..

John incloses \$1 for a sample

newsletter and info regarding the Sinclair Shareware Disk File Exchange as advertised in the Sept./Oct. issue of TieDesigns.. John has an Oliger Disk System w/2.5in drive (DSDD).. John:..

Thanks for the inquiry and the \$1. As you can see from the attached SincLink 8807-9 page 8, our Shareware files have been available on QL disk.. An 881227.1625 call to Bob Kuster revealed he has succeeded in getting about 38 TS2068 files on (3) JLD disks. He has promised to mail a list of them to me tomorrow and the list should be in this file in time for SincLink 8901..

The object of this whole EXCHANGE concept is for Sinclair Computer Users to exchange Sinclair Information (Programs and Text Files) in STANDARD disk format.. We expect this format to be MS(DOS)-DOS 360K, or 720K; 5.25in or 3.5in. A little inquiry from you to John iger, as to the feasibility of this on the JLD system would help the project along.. Are your drives 40 or 80 cylinder (track per side)?.. Can you send us a list of files you have to exchange?.. We will send you our JLD TS2068 list as soon as we get it from Bob Kuster and we receive your list..

Hope this answers your question.. We have marked your 880817/Catalog Sheet item in SincLink 8807-9 page 10.. Glad to see you got your TieDesigns 8809-10. We haven't got ours yet...  
88 881227.1400/Call from: Norean Owens;; 313-526-6639;; 11440 Nashville;; Detroit;; MI;; 48205.. Nore found out about us from Computer Shopper 8810. He bought a TS1500 with 16K RAMpack, MODEM and printer at the Indianapolis Computer Fest.. He is interested in a Stringy Floppy (A&J Microdrive) for his TS1500.. We suggested:..

88 A&J Assembly;; 408-281-0100..

88 Do any of our readers have a spare TS1000/1500 Stringy Floppy for sale?..

88 Borrowing one from the SLIX Library (at least see what they are like)..

Nore:.. We checked thru our Hardware Library, and we still have ONE TS1000/1500 Stringy Floppy available for \$149.50 + \$5.00 Shipping and Handling.. SincLink Subscribers may take a \$19.95 User Group Discount to bring the total price to:.. TS1000/1500 Stringy Floppy Starter Kit. Includes Interface, Drive, Expansion Card Edge, Owner's Manual, 5 A&J Micro Wafer, Wafer Organizer ..... \$149.50 SincLink Subscription ..... \$15.00 Shipping & Handling ..... \$5.00 Sub-Total ..... \$169.50 Minus User Group Discount \$19.75 Total ..... \$149.75 Make check payable to:.. SincLink..



format..  
Bob is asking a list of our TS2068 Shareware Library. Perhaps he can send you the list when he gets it done so you won't have to exchange files that are the SAME. Hope this helps...

8 881214.1453-1458/Call from: Donald Swink; 619-745-4314;; 145 West Selicita, Apt. #4;; Escondido;; CA;; 92025..

Don found out about us from Computer Shopper and is a Sonar Technician in the Navy. He is looking for help in getting his ZX Microdrive System to work with his Spectrum, or TS2068. His Spectrum needs repair and he is looking for someone (possibly in England) to repair it..

Don also has a PC Clone and a Laptop.. For a 'Twister Board' or 'Rainbow' interface to allow the ZX Microdrive System to be used with the TS2068, we suggested TS Vendors::

88 WMI;; 503-635-7484..  
88 MJS;; 516-543-5252..  
88 Ed Gray Enterprises;; 213-759-7406..

88 Knighted Computers;; ACD-TEL-NUMB?;; 803 S. 4th Street, Fulton;; NY;; 13069..  
88 Wes Brzozowski;; c/o SINCUS-NEWS..

Don had already tried and not had any luck with: TS Vendors::

88 Curry Computer;; 1-602-978-2902..  
88 Zebra Systems;; 718-296-2385..

88 TS Services;; Cincinnati;; OH..

For info on Spectrum Repairs, we suggested::

88 Dan Elliott;; 314-739-1712..

88 CATS;; Vernon Smith;; 703-978-1835..

88 LIST;; Joe Newman;; 201-527-0535..

88 Time Designs Magazine;; 503-824-2658.. 88 UPDATE Magazine;; 904-871-4513..

Dons..

We have enclosed a printout of the 'sx88' file with addresses of other TS User Groups.. Hope this helps...

8 881213.1539/Call from: Jeff Terry;; 408-734-1604..

Jeff found out about us from the San Jose Mercury News. He reports he has: FOR SALE: ZX81 with 16K RAMpack...

8 881210/Newsletter Exchange: ISTUG\_NL 8811 (7)pages page 2: Software Library Exchange?..

Frank?..

Perhaps we could exchange Newsletters on disk (with programs contained in the Newsletters as ASCII files?..). We suspect we can get all of SinLink 88-87 (2 years) on one 720K 3.5in or 5.25in QL floppy disk. Is this a convenient format for you?..

We are working on a program (Called 'ESF Concepts MENU') to make searching all this information very easy..

8 881210/TCH\_TS SIG Meeting.. Attendees (7): Dick Delp, Howard Lebowitz, Bill Baker, Bill Miller, Carl Linden, Herman Griffin, Forrest Hettlinger..

Topics: PDSE, LogOn, Exatron, DNA, Desqvew 386 and Bournouli Disks, & 'Quad Density'..

From: Dick Delp: 'Information Helpful In Writing Diskettes To Be Read By MS-DOS Machines' On: 5.25in 360K Disk;; 3.5in 720K Disk;; (9) page printout...

8 881209/Newsletter Exchange: ZX-Appeal 8811-12 page 2: Harvey (Taylor? (880317)) discussed the SCSI (for the QL?) project he is involved in ... via E-mail with a fellow from California. ETA: (1) year..

Harvey:.. A QL SCSI is just what SLIX has been looking for.. We have been hearing rumors of 20-SMB 3.5in 'Floptical' drives which will read and write regular 3.5in diskettes as well..

They are alleged to be available in 1st Quarter 1989. With a year or two to figure out which one will be 'standard', this seems to fit in pretty well with your schedule.. Mark Wahl has been investigating a sub-directory QL file system based on UNIX, MINIX, and GNU. Maybe this would help your project..

SLIX has also been investigating a Keyword Table based Search system for the QL for File Systems up to 4 Gigabytes.. We will try to keep you informed of our progress. Perhaps you could do the same...  
8 881209/Letter from: Dær A. Deslauriers;; ACD-TEL-NUMB?;; 326 McBean Street;; Thunder Bay;; ONT.; P7B 4L1;; Canada..

Dær says that for the past 7 years he has had a 'Timex ZX81' to which he has added the TS1016 RAMpack and TS2040 printer, a system which he has enjoyed very much.. About a year ago Dær read in a magazine about a software program called 'Data Base Management (Filepro 16)' which can be used with his Timex.. Dær would like Source and Cost information about this program..

Dær?.. We are unfamiliar with the program. Perhaps some of our other readers can help?.. You might also try: Bill Harmer of the Ottawa-Hull TS User Group; Tony Willing of VISTA (both marked on the attached sx88 printout) or Jim Horne (marked in the sc881201 record). All these folks are ZX81- TS1000 specialists.. Hope this helps...  
8 881209/Note to Andy Hradesky..

Andy?.. Attached are (2) double size SinLink 8812 for paste-up into TIMELINEZ 8812..

Also included is the SinLink Article: ss88915a, 'HOW TO MAKE YOUR TIMEX SINCLAIR COMPUTER COMPATIBLE WITH... (The World)', (also double size) in case you need some more material...  
8 881208/Disk from: WIDJUP Co. (Bill Pedersen). 5.25in, 40cylinder, 2heads, 9sector/track Disk Marked:

'Article, Memory Improves With Age, DSDD 9 Sector/track, IBM Format, File (to) Epson Printer'.. dir B: widjup\_0013..  
-----  
apdx\_a.txt 3761 881028.0745  
bypass.txt 11329 800102.0736

monitor.txt 2967 800102.0745  
bypass1.cut 82271 881204.0242  
bypass2a.cut 80330 881204.0245  
bypass2b.cut 73670 881204.0247  
bypass2c.cut 76611 881204.0249  
monitor1.cut 10227 881204.0324  
read.meg 1189 881204.0405  
mega\_16.txt 15470 881028.0742  
10 file(s) 0 bytes free

..  
Bill?..  
Thanks for the info. So far all we have done is read the directory on our MS(DOS)- Osborne 3 and print the files...  
881216.09???: b:read.meg..  
881216.1010?: b:bradr.txt..  
881216.1036?: b:monitor.txt..  
881216.1041?: b:mega\_16.txt..  
The disk got creased pretty well in the mail, but we can probably read it anyway.. We will try to index it and add it to our Permanent Data Base...  
8 881208/Letter from: Maurice O'Callaghan; ACD-TEL-NUMB?;; POB 1106;; Ft. Bidwell;; CA;; 96112..

Maurice incloses a check to SinLink for \$27.95 for: 88 SinLink Subscription \$15.00 88 TS1000 Manual deposit \$10.95 88 Shipping & Handling \$2.00 ..

Maurice?..  
Thanks for the check. Hope the Manual (marked: '880228') loaned to: SLIX; by: Don Moser..) helps out. Please return it within 30 days to avoid deposit deductions...  
8 881207/PC UNIX SIG Meeting.. Handouts: (14)..  
Pages: (1000+)...  
8 881205/CATS TS CAPITALFEST 890505-09 Notice from: Capital Area TS Users; c/o? Mrs. Audrey G. Curnutt;; ACD-TEL-NUMB?;; Position?;; 10400 Truxton Rd.; Adelphi;; MD;; 20783..

'Dear Timex Sinclair Enthusiast'..  
We would like to take this opportunity to invite you to attend the upcoming Capital Area Timex/ Sinclair Capitalfest on May 6 and 7, 1989. Banquet Friday night, May 5, 1989..  
Fest to be held at the Howard Johnson Inn, Route 450 and The Beltway (East Side), New Carrollton, MD..

Howard Johnson's is conveniently located for easy access by road, subway (New Carrollton, MD. stop), Amtrak from New York and Boston to the North and all points South, and by air into Washington National and Baltimore- Washington International..

CATS, our Users Group, currently with over 100 members will be hosting this affair.. Sharp's, Zebra, and many other vendors will be sponsoring and attending..

Seminars, Door Prizes, and Many Surprises await you.. This CapitalFest will be fully advertised with thousands of flyers being sent all over the country..

Hotel room rate is \$62.00 a night along with one free admission to show.. Banquet, Friday night will run around \$17.00.. Tables will be \$25.00 each.. If you are interested in more information, please let us

know..  
Get the details!!!!!!.. Love to have you at the fest.. C.A.T.S. CapitalFest; 301-439-8756;; P.O.Box 241; Garrett Park;; MD;; 20896-0024..

8 881203.1634/Call to: Steve Nichols about: using his experimental BBS as a SLIX Remote File System.. Steve says one of the problems is that he needs an X-MODEM Protocol Definition File by: Ward Christiansen, and the Y-MODEM and Z-MODEM Protocol Definition File(s) by: Chuck Forsberg.. We suspect sources to try are:..

88 Keith Felix..  
88 Ed Gray..  
88 Pete Fischer..

88 PDSE File in Mark Wahl's QL Development Manual..  
88 X-MODEM BASIC Comm. Program from: Amiga Fred Fish Disks..

88 Gary Lessberry..  
88 881203.1735/Call to: Keith Felix..

Keith reports the X-MODEM and Y-MODEM Definitions he knew about were on Compuserve and he never got around to downloading them.. He will keep us informed on his progress in downloading them and we will keep him informed of progress with other sources..

Keith also reports the Southbay TI User Group BBS 408-258-3679, operates with:..

(4) 80track 71/9K disk drives.. (2) disks for uploads and downloads.. (1) disk for the BBS Program.. (1) disk for messages..

The BBS is temporarily down while it is being moved...  
8 881203/Letter from: Donald Lambert..

Don says he got the back issues of TIMELINEZ in September and now that he is back from Japan, he would like to know the price of the back issues of SinLink and BAZUG as listed in the sc880903 record..

Don reports he is in the process of getting a Larken disk system for his TS2068 and is interested in the availability of SinLink and BAZUG issues on disk..

Don?..  
Thanks for your interest in TS History. We have looked thru our back issues of SinLink and BAZUG and we don't seem to have any extra copies (except for 1988)..

We really don't want to encourage people to order issues that we have to go to Copy Mart to copy, so we will set a price for these issues off:..

88 \$0.25 per 8.5 x 11 copy..  
88 \$0.30 per 8.5 x 14 copy..  
SinLink 8206 to 8306 is 1 page per 8.5 x 11 copy..  
SinLink 8410 to present is 2 pages per 8.5 x 11 copy..  
BAZUG 8209 is 1 page per 8.5 x 11 copy..

BAZUG 8301, 2, & 3 is 1 page per 8.5 x 14 copy..  
What we would prefer is for someone to index or enter the contents of these newsletters into an ASCII file in some format we can read (see the attached SinLink 8812 for preferred disk formats) so we can have them in our Permanent Data Base. We will provide

copies FREE for that purpose.. We have attached BA2U6 8209, & SinLink 8206, 8410, 8502 & 8504 to give you a 'Flavor' of what they are like.. Hope this answers your question...

881203/TCM TS SIG Meeting.. Attendance: 116;; Topics: NS(PC)-BBS Program Reviews by: Howard Lebowitz;; 88 'The Solver' \$100 from: Fry's;; Handouts: (10) pages.. 88 ?? \$2 from: ?? Handouts: (7) pages...

881202/Newsletter Exchange: the HACKER 8812 (10) pages.. Steve:

Can we exchange Newsletters on disk?..

QL 3.5in or 5.25in 720K is a convenient format for us.. What is a convenient format for you?..

881202/Newsletter Exchange: NITE-TIMES NEWS 8811 page 4: 'EPROMS Are Alive And Well And Living In Redwood City'.. Gary!..

It looks like you retyped this in. We wonder if this is available on QL disk. If it is, could we exchange a disk with SinLink on it for a disk with NITE-TIMES NEWS on it to add to our SLIX Permanent Data Base?.. The most convenient format for us is QL 3.5in or 5.25in 720K.. What is most convenient for you?..

We suspect we can get SinLink 88-87 on one 720K disk if we can figure out a disk format we both can use...  
881202/Letter from: Paul Siu;; 215-461-8848;; 53 Mersant Circle;; Darby;; PA;; 19023.. Paul encloses a SASE. Thanks Paul!.. He found out about us from Compute! 8811..

Paul says he has had a TS1000 for a number of years, but that it is down in the cellar gathering dust, because the power plug wore out and he lost the rubber feet off it so now it has the dreaded 'RAMpack wobble'..

He would like to know:

88 How to repair the power jack? Can it be replaced with a Radio Shack equivalent?..

88 How to attach a Coleco Adam keyboard..

88 Does anyone know about Bill Bell's disk drive project?..

88 What is Tim Stoddard's address to get his 64K non-volatile RAM board..

88 Where to find Hardware/ Software..

88 Some information on our group and how to join.. Paul!..

To solve the TS1000 power jack problem, you might consider wiring in an on-off switch, since unplugging it to turn it off may have worn it out in the first place..

We don't have any readily available information on the Coleco keyboard or Bill Bell disk drive. Can any of our other readers help?..

Tia Stoddard's address is listed in the attached '881107/Letter from Jesse L. Peeler' record.. Back issues of SinLink and TIMELINEZ are a good place to find sources of Hardware/ Software. TIMELINEZ 8412 has an index to previous issues. You may wish to order it first,

Information about our group is in the attached SinLink 8810-11.. Back issues are \$1.00 each.. Make check or money order payable to:.. SinLink.. Mail to:..

c/o Bill Miller, 408-253-3175.. 6675 Clifford Drive.. Cupertino, CA 95014-4530..

To add a better file system to the TS1000, we have been working on an RS-232 project to use another computer as a file server for the TS1000. What other computers do you have (with RS-232 ports and Disk drives) that you could use for this?.. Hope this helps...

881201.2030/Call from: Stan;; 415-323-3430..

Stan has a TS2068 and TS2040 Printer FOR SALE for about \$20?.. He also has a VIC20 and Data Recorder FOR SALE...  
881201/Letter from: Jess Peeler;; Computers, Etc.; Costa Rica..

Jess encloses a SASE. Thanks!!.. Jess says we came through magnificently- promptly and with the exact information that he was searching for.. He has (4) New Questions!.. (1) Any info on Mewail's hi-res program 'THRUST'?..

(2) Any info on Fred Nachbaur's high resolution for the TS1000- his address?.. (3) Info on the ZX-LRD ROM for hi-speed cassette access?.. (4) Mike Furman's address and a copy of his TS1000 RS-232 Schematics?..

He also tried the modification from: ZX81 ML Bits and Bytes 0115 (SinLink 8807-9 page 9).. It worked alright, but what is it for? Can anyone answer?.. Jess passes on a TS1000 modification which he believes is very necessary and which he puts into all ZX81/ TS1000 computers which pass thru his shop:

ZX81/ TS1000 ULA HEAT SINK PROTECTION..

From: Computers, Etc.; Jess Peeler;; ACD-TEL-MUMB?;; Proprietor?;; Apdo 186- Escazu 1250;; Costa Rica;; Centroamericana; ..

There are four (4) Integrated Circuits in the ZX81/ TS1000 basic computer as originally designed. (Five, if you happen to have an early ZX81 which used 2 ea. 1K x 4 2114s to produce the 1K x 8 RAM)..

The Static RAM chips almost never burn out. They are very reliable.. The ROM chips are also highly reliable- hardly ever need to be replaced..

The 200A CPU does burn out, but not often. Happily, this is a very common, readily available and cheap chip to purchase- available for \$1.50- \$2.00 now..

So we come to the last chip, IC-1, the Ferranti ULA chip. This is a DELICATE chip and DOES burn out- often! It needs to be heat- sanked. Whereas the other three I.C.s can be replaced (One could even burn an EPROM for a new ROM), if you lose your Ferranti ULA, you can probably obtain a replacement

only by the purchase of another discarded TS1000- and that 'discard' may have a burned ULA too, so watch out..

For heat sinking, the best answer is to purchase heat sink radiators and heat- conductive epoxy adhesive. I extract the chip myself, but one could do the process by leaving the chip in place - - thoroughly mix enough epoxy to coat both the I.C. and the heat sink. Carefully spread a thin layer on the top surface of the I.C. and the bottom surface of the heat sink. Then press the two surfaces together- you can put a small weight or clamp of some nature to keep the two in contact- then leave 'em alone for 24 hours! If you did remove the chip, plug it back into the socket now. WARNING: Mark the top end (pins 1 and 40) with some form of identification- fingernail polish works just fine- BEFORE gluing the heat sink on. If you don't, you could plug the ULA in upside down and it's GUARANTEED TO BURN UP the instant you turn on the computer..

Heat Sinks:  
88 1983 Allied Catalog;; Mfr. type 5087B..  
88 1986 Newark Catalog;; EG-6 Wakefield Engrg. type 452-7AB.. Thermally- Conductive Adhesive: 88 Something like Delta Bond 152..

Jess...  
Thanks for your information. To bad we can't exchange information by disk so I don't have to type it into our Data Base..

We don't have any readily available information on the Mewail 'THRUST' program or ZX-LRD. It seems we read somewhere that Mewail is no longer supporting it's TS products. Can anyone else help?..

880903/VISTA ML V2NS page 2 reports: 'Fred (Nachbaur) accepted a job offer in Ottawa, thus moving and turning over the marketing of his TS1000 goods' to: TS Vendors: Insomniac Electronics, No.3;; Jia Horne;; 604-438-5739;; Proprietor?;; 3050 Kingsway;; Vancouver;; B.C.; V5R 5Z7;; Canada..

'Fred suggests we write and support Jim, as he is a 'rare bird' in our world-- a NEW TS Dealer'..

Folks who want to keep track of Mike Furman's progress on his projects can read SinLink or contact Mike directly at: LogOn/SV BBS;; 408-745-0880.. We will pass any questions on to him through the Newsletter..

Hope this helps. Keep in touch...  
881201/Letter from: Mitch McKibbin;; b19-292-7611 (home); 2036 Finch Lane;; San Diego;; CA;; 92123..

Mitch encloses a SASE. Thanks!.. Mitch says he is currently writing an article about: 'Disposing of Used Computers'.. He asks:..

88 Do we have any ideas or suggestions about this subject?..

88 Who to contact?..

88 What people do with 'old' computer equipment?..

88 Other sources to contact?.. Any help would be appreciated..

Mitch!..

Thanks for your interest. We are curious as to how you found out about us? Computer Shopper?.. Since it can be kind of difficult to get rid of 'old' (obsolete?) computer equipment the most popular solutions seem to be:

88 Start a computer museum.. 88 Give it to a friend.. 88 Try to sell it:.. 88 Thru a User Group:.. 88 Newsletter..

88 Meeting.. 88 At a computer swap.. 88 Thru a newspaper ad..

88 Thru a message on a BBS.. 88 Give it to a User Group.. As you can see in the attached SinLink 8810-11, we list items for sale as a service to our readers (even if the folks listing the items are not subscribers)..

A list of other TS User Groups is on page 7.. These thoughts probably aren't to original but maybe they will help..

Do any of our other readers have any thoughts on this subject?..

881201.0835-0850/Call from: Michael Jeffers;; ACD-TEL-MUMB?;; L-49 Calle 11, Reparto Universidad San German;; Puerto Rico;; 00753.. Michael found out about us from Compute! 8811?..

He reports he just bought a TS1000? 'No Name Clone'. From his description, it sounds like a 'PCB300'.. He is interested in an I/O Map and in using it for Home Control, Complex Number Analysis, and Engineering Applications. He asked if we had any information on the PCB300..

Michael!.. We spent a few hours searching the SLIX files and found the following PCB300 info:  
88 TIMELINEZ Articles:  
88 8705 page 292;; 'Product Review: PCB300' by: Bob Orrfelt..

88 8704 page 284,285; 'ZX81-TS1000-TS1500 Clone: The PCB300' by: Donald S. Laubert.. 88 the HACKER 8801 page 2 item: 'PCB300 'TS1000 Clone' owned by: Sven of: TS UG of Las Vegas..

88 Z-Appeal 8710-11 pages 16,17,18 articles: 'More on the PCB300' by: Fred Nachbaur.. 88 Z-Appeal 8809 articles:  
88 Page 3; 'PCB300 Interfacing Alert' by: Ken Abraeson..

88 Page 16, 17, 18;; 'PCB300- Magic or Madness' by: Fred Nachbaur..

88 87010 SBCC/MLAZXU6\_ML item:  
Robert Schiake 'Rocket Man' has

acquired a PCB300 for a back-up to his TS1000. He uses his TS1000, in portable mode, for doing field math calculations at their model rocket firings.. We are going to put a BASIC 'starter' program package together for new PCB300 users.. Candidates include:  
88 TM1000 Word Proc..

88 VU-CALC Basic version.. 88 SMALL WONDER File Program..

88 DISAS Disassembler.. 'PCB300 technical details are covered in depth, in the Summer issue newsletter: Z-Appeal' from: Vancouver, Canada TS User's Group; Rod Humphreys;; 2000 Highview Place; Port

Moody, D.C.; VSH 1NS5; Canada..  
 #8 870915/PCB300 User's Letter from: David Vail; Big Bend Community College; Ray Barracks Education Center; APO NY; 09074-5000..  
 #8 870815/TB Bulletin PCB300 items:  
 #8 8745 page 2..  
 #8 8787 page 6, 11..  
 #8 870822/SINCUS NEWS 8707 article; page 3, 4, 5; 'The PCB300; A Clone of the TS1000, Part 2; And the Author Learns More' by: Donald S. Lambert..

#8 870822/TX-Appeal Summer page 13, 14, 15 article: 'PCB300 Preliminary Technical Report' by: Ken Abramson..  
 #8 870808/DTSA UG NL 8708 article (reprinted from: RAMTOP 8705-6) page 2, 3; 'The PCB300 Computer, Part 1- Hardware' by: Ron Hopkins- Lutz L.I.S.U..  
 #8 870523/DTSA UG NL 8705 PCB300 item page 1..  
 #8 870511/SINCUS NEWS 8705-6 page 5, 6, 15; 'ZX81- TS1000 Clone: The PCB300' by: Donald Lambert..

#8 870424/Letter from: Doug Hoiles with PCB300 ad from: HR Corporation; 215-426-1708.. Our policy is to encourage you to obtain copies of other User Group Newsletters directly from them..

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\* 880531/Newsletter Exchange, ATSU NL 8804, (?\_pages); ATSU; Mougli Assoc.; 614-481-4251; CompuServe ID: 70007,1760; Position?; 2000 Elmwood Ave., Apt. B; Columbus; OH; 43212; USA...

\* 880910/Newsletter Exchange, ZX-Appeal 8809 (16 Pages); Vancouver Sinclair Users Group; Red Humphreys; 604-438-7740 (Ken Abramson-President); Treasurer & Editor; 2006 Highview Place; Port Moody; B.C.; V3H 1M5; CANADA...

\* 880913/Newsletter Exchange, SIMCUS NEWS 8809-10, (10 Pages); Sinclair Computer Users Society; Paul Hill; -; Secretary & Editor; 1229 Rhodes Road; Johnson City; NY; 13790; USA.. Other Contacts: \* John Colonna, SIMCUS Tape (and disk?) Swap coordinator; -; 20 Builfoyle Ave.; Binghamton; NY; 13903...

\* 880113/Newsletter Exchange, D/FW NL (Data Expansion), 8801, (24 Pages); Dallas/ Fort Worth Timex/ Sinclair/ Astrad Metroplex User Group; John L. Battey; TS Sub BBS, (1817 or 214)540-4183, 8/M/1, 24hrs; Position?; 717 Juniper; Lewisville; TX; 75067; USA.. Other Newsletter Exchanges: \* The Dallas Timex/ Sinclair/ Astrad Users Group (D.T/S/A USG); George Edmonds; -; Position?; Post Office Box 153421; Irving; TX; 75015.. \* The Fort Worth Timex/Sinclair Users Group; c/o David Baulch; -; Position?; 4424 Geddes Avenue; Fort Worth; TX; 76107... ...

\* 880113/Newsletter Exchange?, Q2T NL (from D/FW NL 8801) Issue?; (Number of Pages); Q2T; Name?; -; Position?; 2025 O'Donnell Drive; Las Cruces; NM; 88001; USA...

\* 880915/Newsletter Exchange, PACC TALK 88097, (4 Pages); Pittsburgh Area Computer Club; NAME?; PACC BBS, 412-221-4599, 8/M/1, 300/1200/2400, 24hrs; Position?; P.O. Box 6440; Pittsburgh; PA; 15212; USA.. Other Contacts: \* Pres.: Phil Cutrara; 412-321-3181.. \* Pres.: Duane Ellis; 412-367-7549.. \* MAL 3YR: Joe Siciliano; 412-488-8559.. \* MAL 1YR: Jim Bocock; 412-325-2028.. \* MAL 2YR: Judy Muir; 412-379-8762.. \* Timex SIG Leader: Tom Heatherington; 412-672-4211...

\* 880220/Newsletter Exchange, CATS NL 8802, (?\_Pages); Capital Area Timex Sinclair User Group; Tom Bent; 301-730-7187; President; P.O. Box 467; Fairfax Station; VA; 22039; USA.. Other Contacts: \* Vernon Saiti; (703)978-1835; Contact Person, Editor...

\* 881001/Newsletter Exchange, the\_HACKER 8810, (10 Pages); Timex Sinclair User Group of Las Vegas; Steve Sawchuk; 702-451-6676; Editor; 2345

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\* 880106/Newsletter Exchange, QL\_Newsletter Issue?, (1 Page); QL Users Group; David Sullivan; ACD-TEL-NUMB?; Organizer; P.O. Box 353; Gilsum; NH; 03448; USA...

\* 880926/Newsletter Exchange, HATS NL 8810, (5 Pages); Harrisburg Area Timex Sinclair Users Group; Dave Bennett; 717-774-7531; Editor; 329 Walton St. (Rear); Lemoyne; PA; 17043; USA...

\* 880917/Newsletter Exchange, TS Bulletin 8806, (8 Pages); Ottawa-Hull Timex Sinclair User Group; Bill Warner; ACD-TEL-NUMB?; Software Manager; 97 Ruskin Street; Ottawa; Ont.; K1Y 4D3; CANADA.. Other Contacts: \* Alan Moore; ACD-TEL-NUMB?; President; 1248 Maidland Ave.; Ottawa; Ont. .. \* David Solly; ACD-TEL-NUMB?; Librarian; 1545 Alta Vista Dr., Apt. 1402; Ottawa; Ont.; ...

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\* 880730/Newsletter Exchange, Pixel Print Prs 880sum, (?\_Pages); Pixel Print Press, Leake Software Development; Stan Leake; ACD-TEL-NUMB?; Editor; 2144 White Oak; Wichita; KS; 67207; USA.. Other Contacts: \* Bill Ferreebee; ACD-TEL-NUMB?; Editor; 749 Hill Street 66; Parkersburg; WV; 26104...

\* 881003/Newsletter Exchange, KATS KNEWS (KATS KOMPUTER KNEWS) 8809, (2 Pages); Kansas Area Timex Sinclair Users Group; Randy Cummings; (316)733-0242; Vice-President & Software Exchange Chairman?; 124 W. 10th.; Andover; KS; 67002; USA.. Other Contacts: \* Paul D. Reynolds; (316)529-2575; President; P.O. Box 17579; Wichita; KS; 67217.. \* Ken Cummings; -; -; 141 Browns Dr.; Wichita; KS; 67230.. \* Matt Kiddoo; ?; ?; ... ...

\* 880227/Newsletter Exchange, SS TS WF 88 NL 8803?, (?\_Pages); Sunstate TS Winterfest News; Jon Williamson; BBS 904-775-0093, 8/1, N, 300, 24HRS; Editor?; 249 N. Harden; Orange City; FL; 32763; USA...

\* 880903/Newsletter Exchange, VISTA NL V2-W5, 8809?, (7 Pages); Vashon Island Sinclair Timex Association; Tony Willing; 206-567-4118; Editor; P.O. Box 199; Vashon; WA; 98070; USA...

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